1107-81-474   **Matilde Marcolli*** (`matilde@caltech.edu`), Mathematics Department, Caltech, Mail Code 253-37, 1200 E California Blvd, Pasadena, CA 91125. *Feynman integrals and motives.*

I will survey recent results (based on collaborations with Paolo Aluffi, Ozgur Ceyhan, and Xiang Ni) on motives of algebraic varieties arising from perturbative renormalization in quantum field theory, for Feynman integrals in momentum space and in configuration space. (Received January 20, 2015)